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1 [GPGPU: general purpose computation on graphics hardware](#)

 David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn
August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**
Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (63.03 MB)

 Additional Information: [full citation](#), [abstract](#), [cited by](#)
Bibliometrics: Downloads (6 Weeks): 212, Downloads (12 Months): 1582, Downloads (Overall): 6122, Citation Count:

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower with fully programmable vertex ...

2 [Communications of the ACM: Volume 52 Issue 10](#)
Publisher: ACM

 Full text available: [Digital Edition](#), [Pdf](#) (7.38 MB) Additional Information: [full citation](#)
Bibliometrics: Downloads (6 Weeks): 2461, Downloads (12 Months): 2461, Downloads (Overall): 2461, Citation Count:

3 [Efficient schemes for managing multiversionXML documents](#)

S.-Y. Chien, V. J. Tsotras, C. Zaniolo

 December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue

Publisher: Springer-Verlag New York, Inc.

 Full text available: [Pdf](#) (926.90 KB)


 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 32, Downloads (Overall): 376, Citation Count: 10

Found 18 of 260,737

Multiversion support for XML documents is needed in many critical applications, such as software configurative cooperative authoring, web information warehouses, and "e-permanence" of web documents. In this paper, we introduce efficient ...

Keywords: Historical queries, Temporal clustering, Temporal indexing, Version management, XML database

4 Inverted files for text search engines

 Justin Zobel, Alistair Moffat

July 2006 **Computing Surveys (CSUR)**, Volume 38 Issue 2

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (944.29 KB)


[Additional Information: full citation, abstract, references, cited by, index terms](#)

Bibliometrics: Downloads (6 Weeks): 156, Downloads (12 Months): 1501, Downloads (Overall): 6579, Citation Count:

The technology underlying text search engines has advanced dramatically in the past decade. The development of a new family of new index representations has led to a wide range of innovations in index storage, index construction, and query evaluation. While ...

Keywords: Inverted file indexing, Web search engine, document database, information retrieval, text retrieval

5 Mercury BLASTP: Accelerating Protein Sequence Alignment

 Arpith Jacob, Joseph Lancaster, Jeremy Buhler, Brandon Harris, Roger D. Chamberlain

June 2008 **Transactions on Reconfigurable Technology and Systems (TRETS)**, Volume 1 Issue 2

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (779.22 KB)


[Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 209, Downloads (Overall): 259, Citation Count: 1

Large-scale protein sequence comparison is an important but compute-intensive task in molecular biology. BLAST is the most popular tool for comparative analysis of protein sequences. In recent years, an exponential increase in the size of protein sequence ...

Keywords: Bioinformatics, biological sequence alignment

6 Realistic materials in computer graphics

 Hendrik P. A. Lensch, Michael Goesele, Yung-Yu Chuang, Tim Hawkins, Steve Marschner, Wojciech Matusik, Ger

July 2005 **SIGGRAPH '05: SIGGRAPH 2005 Courses**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (18.24 MB)



Additional Information: [full citation](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 57, Downloads (12 Months): 694, Downloads (Overall): 2018, Citation Count: 0

7 [Communications of the ACM: Volume 52 Issue 2](#)

 February 2009 Communications of the ACM

Publisher: ACM

Full text available:  [Digital Edition](#),  [Pdf](#) (7.09 MB) Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 376, Downloads (12 Months): 3190, Downloads (Overall): 3190, Citation Count:

8 [Stasis: flexible transactional storage](#)

[Russell Sears](#), [Eric Brewer](#)

November 2006 **OSDI '06: Proceedings of the 7th symposium on Operating systems design and implementation**

Publisher: USENIX Association


Full text available:  [Pdf](#) (492.74 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 70, Downloads (Overall): 131, Citation Count: 1

An increasing range of applications requires robust support for atomic, durable and concurrent transactions. Databases provide the default solution, but force applications to interact via SQL and to forfeit control over d and access mechanisms. ...

9 [Managing duplicates in a web archive](#)

 [Daniel Gomes](#), [André L. Santos](#), [Mário J. Silva](#)

April 2006 **SAC '06: Proceedings of the 2006 ACM symposium on Applied computing**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (266.54 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 57, Downloads (Overall): 263, Citation Count: 2

Crawlers harvest the web by iteratively downloading documents referenced by URLs. It is frequent to find dif URLs that refer to the same document, leading crawlers to download duplicates. Hence, web archives built th incremental crawls waste ...

10 [Performance tradeoffs in read-optimized databases](#)

[Stavros Harizopoulos](#), [Velen Liang](#), [Daniel J. Abadi](#), [Samuel Madden](#)

September 2006 **VLDB '06**: Proceedings of the 32nd international conference on Very large data bases

Publisher: VLDB Endowment


Full text available:  Pdf (735.37 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 147, Downloads (Overall): 489, Citation Count: 14

Database systems have traditionally optimized performance for write-intensive workloads. Recently, there has been renewed interest in architectures that optimize read performance by using column-oriented data representation and light-weight compression. ...

11 [Efficient passage ranking for document databases](#)

 Marcin Kaszkiel, Justin Zobel, Ron Sacks-Davis

October 1999 **Transactions on Information Systems (TOIS)**, Volume 17 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (328.98 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 79, Downloads (Overall): 573, Citation Count: 26

Queries to text collections are resolved by ranking the documents in the collection and returning the highest-ranked documents to the user. An alternative retrieval method is to rank passages, that is, short fragments of documents, using a strategy that can ...

Keywords: inverted files, passage retrieval, query evaluation, text databases, text retrieval

12 [Data layouts for object-oriented programs](#)

 Martin Hirzel

June 2007 **SIGMETRICS '07**: Proceedings of the 2007 ACM SIGMETRICS international conference on Measurement and modeling of computer systems

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (506.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 77, Downloads (Overall): 350, Citation Count: 1

Object-oriented programs rely heavily on objects and pointers, making them vulnerable to slow downs from cache and TLB misses. The cache and TLB behavior depends on the data layout of objects in memory. There are many different data layouts with different ...

Keywords: GC, TLB, cache, data layout, data placement, hardware performance counters, memory subsystem, spatial locality

Also published in:

June 2007 **SIGMETRICS Performance Evaluation Review** Volume 35 Issue 1

13 [Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data](#)

 [Robert Van Renesse](#), [Kenneth P. Birman](#), [Werner Vogels](#)

May 2003 **Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (341.62 KB)


[Additional Information: full citation, abstract, references, cited by, index terms](#)

Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 380, Downloads (Overall): 2657, Citation Count: 8

Scalable management and self-organizational capabilities are emerging as central requirements for a general large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

14 [Comprehensive statistical admission control for streaming media servers](#)

 [Roger Zimmermann](#), [Kun Fu](#)

November 2003 **MULTIMEDIA '03: Proceedings of the eleventh ACM international conference on Multimedia**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.93 MB)


[Additional Information: full citation, abstract, references, cited by, index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 29, Downloads (Overall): 550, Citation Count: 2

Streaming media servers and digital continuous media recorders require the scheduling of I/O requests to disks in real time. There are two accepted paradigms to achieve this: deterministic or statistical. The deterministic must assume ...


Keywords: admission control, disk performance, statistical modeling, streaming media

15 [Dynamic data fusion for future sensor networks](#)

 [Umakishore Ramachandran](#), [Rajnish Kumar](#), [Matthew Wolenetz](#), [Brian Cooper](#), [Bikash Agarwalla](#), [Junsuk Shin](#), [P. Hutto](#), [Arnab Paul](#)

August 2006 **Transactions on Sensor Networks (TOSN)** , Volume 2 Issue 3

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (2.44 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 266, Downloads (Overall): 1549, Citation Count: 0

DFuse is an architectural framework for dynamic application-specified data fusion in sensor networks. It bridges an important abstraction gap for developing advanced fusion applications that takes into account the dynamic nature of applications and sensor ...

Keywords: Sensor network, data fusion, energy awareness, in-network aggregation, middleware, platform, assignment

16 Sea of images

[Daniel G. Aliaga](#), [Thomas Funkhouser](#), [Dimah Yanovsky](#), [Ingrid Isenhardt](#)

October 2002 **VIS '02**: Proceedings of the conference on Visualization '02

Publisher: IEEE Computer Society

Full text available:  Pdf (12.25 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 29, Downloads (Overall): 413, Citation Count: 8

A long-standing research problem in computer graphics is to reproduce the visual experience of walking through a large photorealistic environment interactively. On one hand, traditional geometry-based rendering systems focus on simulating the visual ...

Keywords: capture, image-based rendering, interactive, reconstruction, walkthrough

17 Wireless sensor networks for habitat monitoring

 [Alan Mainwaring](#), [David Culler](#), [Joseph Polastre](#), [Robert Szewczyk](#), [John Anderson](#)

September 2002 **WSNA '02**: Proceedings of the 1st ACM international workshop on Wireless sensor networks and applications

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (542.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 169, Downloads (12 Months): 1337, Downloads (Overall): 6559, Citation Count: 0

We provide an in-depth study of applying wireless sensor networks to real-world habitat monitoring. A set of

design requirements are developed that cover the hardware design of the nodes, the design of the sensor ne and the capabilities ...

Keywords: environmental monitoring, habitat monitoring, low power systems, sensor network architecture, sensor networks

18 [Modelling information persistence on the web](#)

 Daniel Gomes, Mário J. Silva

July 2006 **ICWE '06:** Proceedings of the 6th international conference on Web engineering

Publisher: ACM

Full text available:  Pdf (187.75 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 31, Downloads (Overall): 282, Citation Count: 2

Models of web data persistency are essential tools for the design of efficient information extraction systems that repeatedly collect and process the data. This study models the persistence of web data through the measurement of URL and content persistence across ...

Keywords: content persistence, tomba, url persistence

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